

FIG. 3

FIG.4

Step	Valve and Actuator Numbers							Action
	46	48	68	70	72	54	56	
1	Open	Closed	Closed	Closed	Vented	Closed	Open	Start System
2	Open	Closed	Closed	Open	Vented	Closed	Open	Pressure Chamber
3	Open	Closed	Closed	Open	Vented	Closed	Open	Vial to Lock
4	Closed	Closed	Closed	Open	Vented	Closed	Open	Start Charge Lock
5	Closed	Closed	Open	Open	Vented	Closed	Open	Pressure Lock
6	Closed	Open	Open	Open	Vented	Closed	Open	Vial to Chamber
7	Closed	Closed	Closed	Open	Vented	Closed	Open	Depressurize
8	Open	Closed	Closed	Open	Vented	Closed	Open	End Charge Lock
9	Open	Closed	Closed	Open	Vented	Closed	Open	Start Discharge Lock
10	Open	Closed	Closed	Open	Vented	Closed	Closed	Pressure Lock
11	Open	Closed	Closed	Open	Gas	Closed	Closed	Actuate Vial Shim
12	Open	Closed	Closed	Open	Gas	Closed	Closed	Drop Vial
13	Open	Closed	Closed	Open	Gas	Open	Closed	Release Next Vial
14	Open	Closed	Closed	Open	Gas	Closed	Closed	Depressurize
15	Open	Closed	Closed	Open	Vented	Closed	Closed	Discharge Vial
16	Open	Closed	Closed	Open	Vented	Closed	Open	

Influence of 129 Main Effects and Interactions (as measured by ANOVA Sum of Squares)

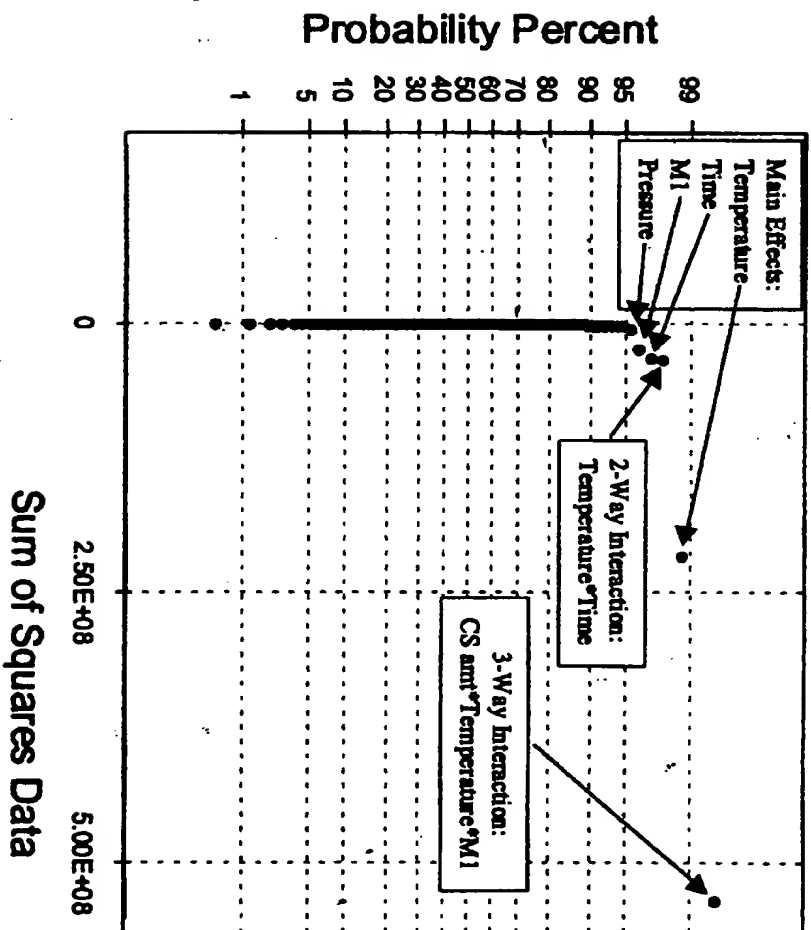


FIG.5